

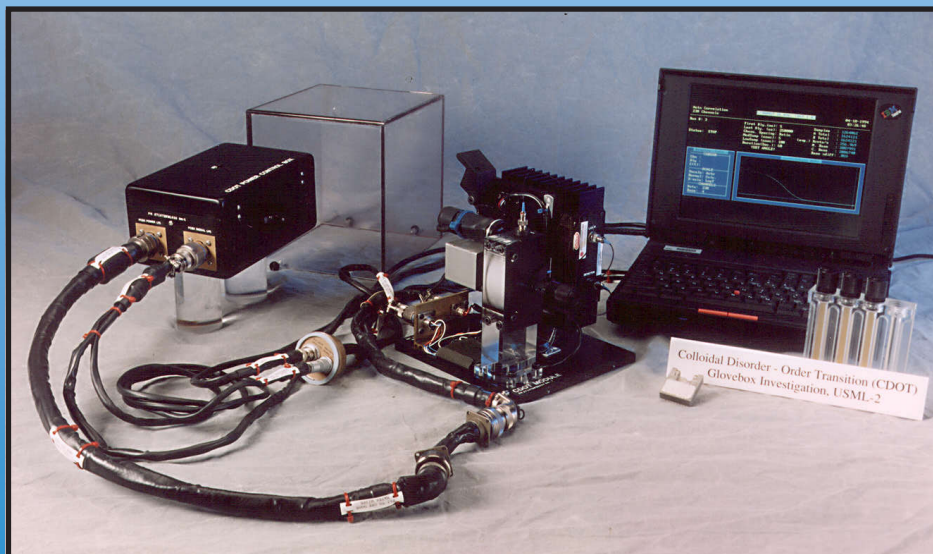
Lewis Research Center

## MICROGRAVITY SCIENCE DIVISION SPACE DIRECTORATE

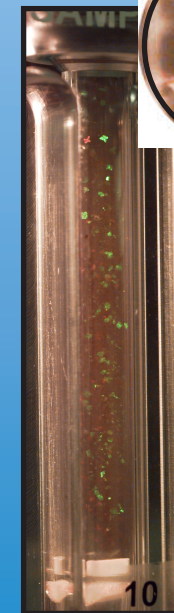


### Colloidal Disorder-Order Transition (CDOT)

Mission: USML-2 Launch: STS-73, October 20, 1995



Colloidal crystals  
on Earth showing  
sedimentation



Colloidal crystals in  
microgravity showing  
dendritic growth



#### Objective:

To investigate the dynamics of hard sphere colloidal dispersions, focusing on the transition from a fluid to a crystal to a glass as the volume fraction of spheres increases, utilizing laser light scattering.

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